

REMARKS

This Response, submitted in reply to the Office Action dated July 27, 2005, is believed to be fully responsive to each point of rejection raised therein. Accordingly, favorable reconsideration on the merits is respectfully requested.

Claims 1-12 are all the claims pending in the application.

I. Rejection of claims 1-12 under 35 U.S.C. § 112, first paragraph

The Examiner rejects claims 1-12 under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement.

With respect to claims 1-6 and 11, the Examiner asserts that the limitation “wherein said means for producing carrier constellation information is adapted to produce for at least one respective carrier subset a set of parameter values from which constellations of all carriers in said at least one respective carrier subset can be retrieved through interpolation,” is not taught in the specification.

Applicant refers the Examiner to, for example, page 5, lines 11-20, which describes that the constellation information transmitting arrangement BiGi_TA consists of a cascade coupling of a **constellation information producer BiGi_PROD** and a constellation information transmitter BiGi_TX. As discussed on page 5, lines 22-30, a channel analyzing circuitry CHANNEL measures the signal-to-noise ratio for each carrier. The signal-to-noise ratio values are used by the **constellation information producer BiGi_PROD** to determine for each carrier subset the number of bits that can be modulated on each carrier of this subset and the gain where

each carrier of this subset should be transmitted with. The obtained eight bit values and eight gain values are then encapsulated in the constellation information message BiGi by the constellation information transmitter BiGi_TX. The constellation information receiver BiGi_RX decapsulates the constellation information message and supplies parameter values to the constellation determining circuitry BiGi_DET. For the operation of the constellation determining circuitry, a constant bit interpolation function and a constant gain interpolation function are a priori defined. The **constellation determining circuitry BiGi_DET** constantly interpolates the received bit number to obtain for each carrier the number of bits that should be modulated thereon and interpolates for each subset the received gain value to obtain for each carrier the gain with which the carrier should be transmitted. See Applicant's specification at page 6, lines 5-17.

Based on the foregoing, Applicant submits that the specification supports all of the recitations of claims 1-6 and 11. The respective aspects of the specification cited above, also support the recitations of claims 7-10 and 12. Consequently, Applicant requests that the 35 U.S.C. § 112, first paragraph rejection of claims 1-12 be withdrawn.

If further clarification is needed, Applicant respectfully requests that the Examiner contact the Applicant's undersigned representative at the contact information provided below.

II. Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the

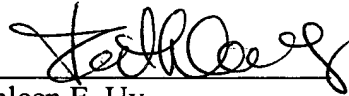
RESPONSE UNDER 37 C.F.R. § 1.111
US Application No.: 09/767,850

Attorney Docket No. Q62670

Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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CUSTOMER NUMBER

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